KHASIN, G.A.; KOLYASNIKOVA, R.I.; VACHUGOV, G.A.; BOYARSHINOV, V.A.;

GAVRILLOV, O.T.; ALEKSEYENKO, M.F.; MELIKHOV, P.I.; VYEORNOV, A.F.

Electric slag refining of stainless, heat-resistant steel.

Stal\* 23 no.10:908-910 0 \*63. (MIRA 16:11)

L 16306-65 EWT(m)/EWA(d)/T/EWP(t)/EWP(b) MJW/JD ACCESSION NR: AP4045659 S/0133/64/000/009/0836/0839

AUTHOR: Gavrilov, O. T.; Boyarshinov, V. A.; Shalimov, Al. G.; Dolinin, D. P.; Khasin, G. A.; Kolyasnikova, R. I.; Savenok, L. L.

TITLE: Quality of vacuum-arc-melted ball-bearing steel

SOURCE: Stal', no. 9, 1964, 836-839

TOPIC TAGS: ball bearing steel, ShKh 15 ball bearing steel, vacuum arc melted ShKh 15 steel, high grade ShKh 15 steel, improved mel-ting method

ABSTRACT: A study has been made to determine the causes of flaws in consumable-electrods vacuum-arc-melted ShKh 15 steel for ball bearings and to find the means to eliminate them. As a result, several improvements in melting technique have been adopted, so that it now is possible to obtain high-grade steel for precision and special-purpose ball bearings by a single vacuum-arc melting of the ShKh 15-steel consumable electrodes. The "spot" inhomogeneity of the ingots, formerly the cause of 90% of the rejects, was fully eliminated by using symmetrical coaxial current conductor and by eliminated

Card 1/2

L 16306-65

ACCESSION NR: AP4045659

minating nonsymmetrical magnetic masses. Light stringers, or stratified crystallization, were completely eliminated by automatic control of the electrode feed. Another type of ingot flaw, bright spots containing 0.04—0.05% less carbon than the bulk of the metal, was eliminated by improving the electrode holders and by leaving a portion of the electrode, 100—200 mm long, unmelted. The ingot pipe was eliminated by gradually decreasing the arc current from 4.0—4.4 Ka to 0.8—1.2 Ka during the last 10—15 min of melting. Orig. art. has: 10 figures and 3 tables.

ASSOCIATION: TaniichM and Zlatoustovskiy metallurgicheskiy zavod (Zlatoust Metallurgical Plant)

SUBMITTED: 00

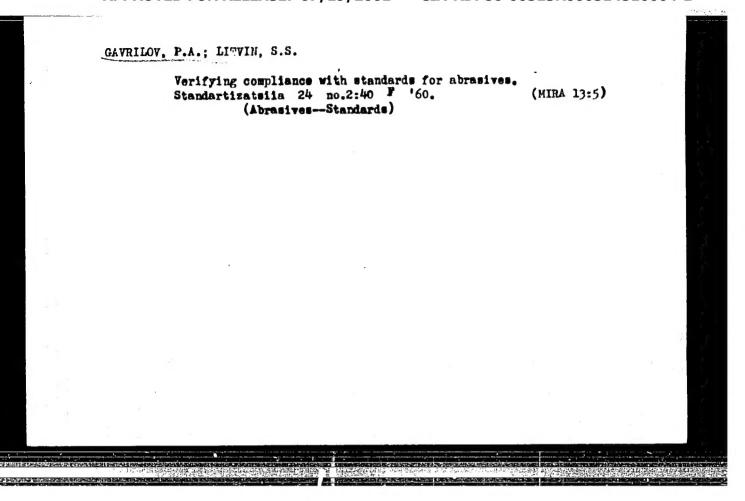
ENCL: 00

SUB CODE: MM. IE

NO REF SOV: 000

OTHER: 000

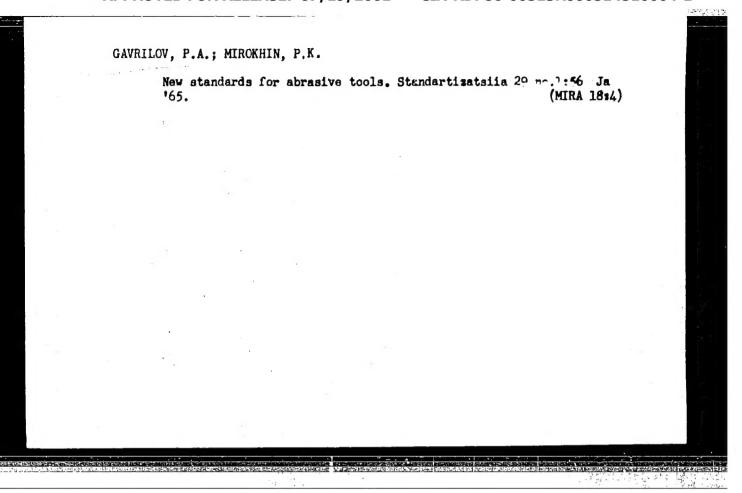
Card 2/2



GAVRILOV, P.A.; LITVIN, S.S.

Abrasive cloths. Standartizatsiia 26 no.8:49-51 Ag '62.
(MIRA 15:8)

(Abrasives—Standards)



GAVRILOV, P.A., nsuchnyy red.; PANASKNKOVA, Ye.I., red.; VLASOVA, N.A., tekhn. red.

[Investigation of the critical parameters of reactor systems] Issledovaniia kriticheskikh parametrov reaktornykh sistem; sbornik statei. Moskva, Gos.izd-vo lit-ry v oblasti atomnoi nauki i tekhnizi, 1960. 117 p. (MIRA 14:5)

(Muclear reactors)

### "APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000514510004-1

L 18370-63 EPF(n)-2/EWT(m)/BDS/T-2 AFFTC/ASD/ESD-3/AFWL/SSD Pu-4 ACCESSION NR: AP3005218 DM S/0089/63/015/002/0115/0120

AUTHOR: Gavrilov, P. A.; Seliverstov, B. N.

TITE: On the problem of the dynamics of muclear power plants /

SOURCE: Atomnaya energiya, v. 15, no. 2, 1963, 115-120

TOPIC TAGS: muclear-power-plant dynamics, superheat reactor, Beloyarsk muclear power plant, test stand, reactor coolant, desalted water, reactor theoretical investigation, reactor experimental investigation, perturbation, heat release, mathematical linear model, primary loop, secondary loop, nuclear reactor

ABSTRACT: A comparison has been made of the results of theoretical and experimental investigations of the dynamics of a test stand simulating the Beloyarsk muclear electric station, which is equipped with a superheat reactor. The test stand consisted of a two-loop system with chemically desalted water serving as the coolant. The theoretical data were obtained on an electronic analog computer. In the experiment, a determination was made of the reactor runaway characteristics at small deviations of parameters from steady-state conditions and also under certain deep perturbations allowable by the safety conditions of

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L 18370-63

ACCESSION NR: AP3005218

0

the stand. Perturbations amounting to 10—20% above steady-state conditions were produced by varying the following parameters: heat generation, feedwater flow-rate in the secondary loop, circulation-water flow rate in the primary loop, feedwater temperature in the secondary loop, and the degree of valve opening (leading to a cooler simulating the turbine). All data were continuously recorded. The experimental transient characteristics of some processes along with theoretical results are shown in Figs. 1 and 2 of the Enclosure. The results indicate that a linear mathematical model gives a good description of the dynamic behavior of a test stand at a perturbation amplitude of 20% as compared to steady-state conditions. The approach used in this investigation can be applied to other similar nuclear power plants. Orig. art. has: 4 figures and 5 formulas.

ASSOCIATION: none

SUBMITTED: 298ep62

DATE ACQ: 06Sep63

ENCL: 02

SUB CODE: NS, PR

NO REF SOV: 006

OTHER: 004

Cord 2/

GAVRILOV, .. A.; FODLAZOV, L. N.

"Huclear power plant dynamic stability."

report submitted for 3rd Intl Conf, Peaceful Uses of Atomic Energy, Geneva,
31 Aug-9 Sep 64.

SIT(m)/EPF(c)/EPF(n)-2/EPR Pr-4/Ps-4/Pu-4 L 24212-65 1 & S/0089/64/017/006/0439/0448 ACCESSION NR: AP5001265 AUTHOR: Polushkin, K. K.; Yemel'yanov, I. Ya.; Delens, P. A.; Zvonov, N. V.; Aleksenko, Yu. I.; Grozdov, I. I.; Kuznetsov, S. P.; Sirotkin, A. P.; Tokarev, Yu. I.; Lavrovskiy, K. P.; Brodskiy, A. M.; Belov, A. R.; Borisyuk, Ye. V.; Gryazev, V. M.; Tetyukov, V. D.; Popov, D. N.; Koryakin, Yu. I.; Filippov, A. G.; Petrochuk, K. V.; Khoroshavin, V. D.; Savinov, N. P.; Meshcheryakov, M. N.; Pushkarev, V. P.; Suroyegin, V. A.; Gavrilov, P. A.; Podlazov, L. N.; Rogozhkin, I. N. TITLE: Atomic electric power installation "Arbus" with organic coolant and moderator SOURCE: Atomnaya energiya, v. 17, no. 6, 1964, 439-448 TOPIC TAGS: small nuclear reactor, organic coolant, organic moderator, reactor economy, nuclear reactor ABSTRACT: The paper is a summary of the SSSR # 307 report at the Third Inter-Cord 1/2

L 24212-65

ACCESSION NR: AP5001265

national Conference on Peaceful Uses of Atomic Energy, 1964. It describes an installation of a reactor in which organic liquid serves as the coolant, and as the moderator. The low-power reactors of about 5 Mw are expected to be economical in the remote regions where the usual energy sources are not available. A regeneration system is described for the coolant which removes the products of radiolysis. Orig. art. has: 7 figures

ASSOCIATION: None

SUBMITTED: '00

ENCL: 00

SUB CODE: NP

NR REF SOV: 000

OTHER: 000

Cord 2/2

L 6959-66 EMP(m)/EPF(e)/EPF(n)-2/EMT(1)/EMT(m)/EFC/EMG(m)/ WW

ACC NR: AP5016681 SOURCE CODE: UR/0170/65/008/006/0768/0772

AUTHOR: Yemel'yanov, I. Ya.; Gavrilov, P. A.; Seliverstov, B. N.

ORG: none

TITLE: An investigation of the dynamic characteristics of heat transfer apparatus by the method of correlation analysis

SOURCE: Inzhenerno-fizicheskiy zhurnal, v. 8, no. 6, 1965, 768-772

J. U. J. S.

TOPIC TAGS: stochastic process, thermal conduction, thermal excital, steam superheat

ABSTRACT: This paper is the extension of work of the authors [Gavrilov, P. A. and Seliverstov, B. N., Atomnaya Energiya, No. 8, 1963]. Certain dynamic characteristics are determined for the engineering model of the Beloyarsk Atomic Power Station imeni I. V. Kurchatov. Although the test stand in general had a low noise level the authors noted tendencies toward oscillation during entering and exiting flows at the

**Card 1/2** 

UDC: 621.3.012.6 + 536.27

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000514510004-1"

superheater. The artificial excitation of the exiting flow signal impeded the study when it equalled the stimulus noise. The oscillatory fluctuations act stochastically

L 6959-66

ACC NR: AP5016681

and are deemed to be due to unseparated water and moisture in the superheater channel. At normal water level in the evaporator, steam generation instabilities cause pressure oscillations in the evaporator which are damped out by the time the superheater mouth is reached. This is because the steam is compressed and the evaporator is relatively large. As the level rises volume decreases and steam generation fluctuations appear as immediate pressure oscillations at the superheater. Oscillations in front of the throttle valve of the condenser are identical with those in the evaporator. The stochastic behavior of the superheater channel exit pressures and those of the evaporator point to a statistical method of correlation analysis for determining dynamic characteristics. The mathematical model for the superheater channel is based on equations describing: thermal equilibium of discharged steam, of thermal conductivity fuel element and the pressure drop in the line between superheater and steam generator. Normalized correlation terms are approximated by a sum of components, of which the primary component simulates the harmonic oscillation of a feed pump piston. The secondary component, a high frequency component relating the time of heat transfer (from the heating wall to the boiling fluid) to the steam bubble life in the boiling volume, simulates the hydrodynamic instability of the steam generator. Orig. art. has: 5 figures and 3 formulas.

SUB CODE: TD, MA/ SUBM DATE: 19Sep64/ ORIG REF: 004/ OTH REF:

### "APPROVED FOR RELEASE: 07/19/2001

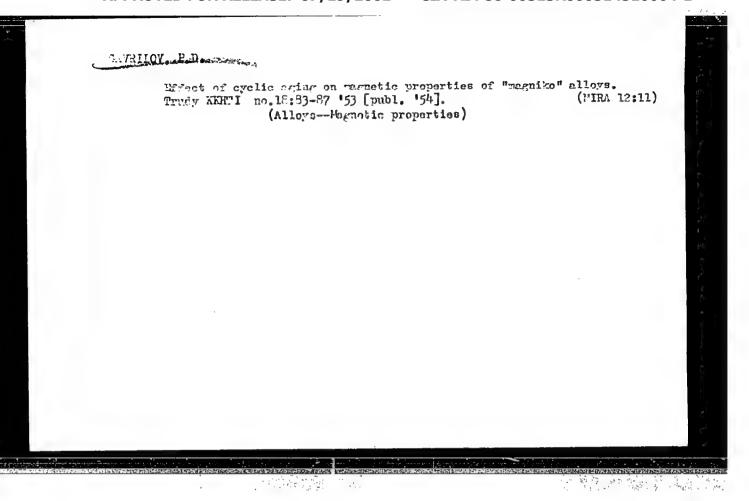
### CIA-RDP86-00513R000514510004-1

EWT(m)/EPF(n)-2/T DM 5075-66 ACC NR. AP5022630 UR/0089/65/019/002/0131/0137 621.311.25 AUTHOR: Yemel'yanov, I. Ya.; Gavrilov F. A.; Seliverstov TITLE: Investigation of dynamic characteristics of the first power unit of the Belovarsk atomic power plant im. I. V. Kurchatov SOURCE: Atomnaya energiya, v. 19, no. 2, 1965, 131-137 TOFIC TAGS: nuclear power plant, nuclear power reactor ABSTRACT: The investigations were conducted by using the method of reactor-system dynamic simulation. A special electronic analog computing machine was used simultaneously with the operating control system. Thysical and heat-generating transient phenomena were interpreted by means of differential equations and the parameters were established. Neutron processes were also described by differential equations and the changes in densities and temperatures of coolants, uranium, and graphite were determined. The authors do not deal with the mathematical analysis They, instead, describe the techniques involved in such research; evaluate the results, and present some practical examples. A schematic diagram of steam-generating arrangement is given. The simultaneous operation of the analog machine and of the control system Card 1/2 09010430

mental data. Finally.	or the reactor	
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GAVRILOV	, P.D			
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			TO A TO SEE LESS TO BE THE	Secretary Report
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	The effect of hydrogen	Ven formation of inner defects D. Cavrilov. Trudy Kann.		
	in casing migrature	D. Cavillov. Trudy Kamn.		
	129-44.—The rapid solidi	ification of high-melting allows for	المراجل ومقطوطاله منطاقة العام الارتجاء المراجلة المراجلة المراجلة المراجلة المراجلة المراجلة المراجلة المراجلة المراجلة المراجلة ال	
	making magnets binders	the escape of entrapped gases.		
		H Which is farmed by reaction of our electrolytically produced metals	5	
	und in the alloys. To	Alimianta thank many famou that	ed .	
	haland, it is recommended	d (1) to use a protective covering of sklatlen during easting, (2) to under-	HEAR	100
		for 15-20 min., then reheat to the	572	
	temp of casting, (3) to	a add. 1-1.2% of Al just before		
		the alloy to solidification (40 50 1		
		the upper trust, remelt-alloy, mre use of CuiO to remove H and of		\$100 B
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	FeiO <sub>1</sub> to remove C, incre proved the magnetic pro- phosphide considerably of	eased the rejects, although it im-	·	
	FeiO <sub>1</sub> to remove C, incre proved the magnetic pro- phosphide considerably of	eased the rejects, although it im- perties.2. The further addn. of Cu secreased to no. of rejects, but it	The same control of the same o	
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	FeiO <sub>1</sub> to remove C, incre proved the magnetic pro- phosphide considerably of	eased the rejects, although it im- perties.2 The further adds of Cu secreased to no. of rejects, but it		

SOV/129-59-2-14/16

AUTHOR: Gavrilov, P.D., Candidate of Technical Sciences

TITIE: Heat Treatment of Metals in Oxygen-free Media

(Termicheskaya obrabotka metallov v beskislorodnykh

sredakh)

Metallovedeniye i Termicheskaya Obrabotka Metallov, PERIODICAL

1959, Nr 2, pp 59 - 60 (USSR)

ABSTRACT: The authors have proposed and tested a method of heating metals in hermetically sealed vessels, applying metallic

sodium as an absorbing medium of oxygen.

As containers, stainlessateel vessels with a lid, welded sections of seamless tubes or welded cells can be used. In addition to the components to be heated, metallic sodium is placed in the vessel, the weight of which equals the weight of oxygen inside the vessel. The metallic sodium oxidises very easily during heating and thus absorbs the oxygen in the vessel so that the components are virtually being heated in a nitrogen atmosphere. Work with sodium does not involve any difficulty or danger provided certain precautions are taken. The authors of this paper have applied this method

Card1/2 for annealing and ageing components made of beryllium

SOV/129-59-2-14/16

Heat Treatment of Metals in Oxygen-free Media

bronze, annealing of molybdenum permalloy, ageing of cobalt-tungsten cores, annealing of transformer steel, tempering of axes of clock mechanisms, etc. There is 1 figure.

ASSOCIATION: Karanskiy khimikc-tekhnologicheskiy institut (Karan' Chemico-technological Institute)

Card 2/2

GAVRILON P.D.

S/137/60/000/**00**6/004/015 A006/A001

Translation from: Referativnyy zhurnal, Metallurgiya, 1960, No. 6, p. 277, # 13676

AUTHORS: Gavrilov, P.D., Kurbangaleyev, R.M., Alentov, A.N., Markovich, Yu.N.

TIFIE: The Effect of Iron on Magnetic Properties of a Copper-Cobalt Alloy

PERIODICAL: Tr. Kazansk. khim.-tekhnol. in-ta, 1957 (1959), No. 22, pp. 161-

TEXT: The authors studied the effect of Fe admixtures ( $\sim 2\%$ ) on the magnetic properties of a 50% Cu - 20% Ni 30% Co-alloy. Tests wer made with cast, cast-annealed specimens (850°C, 8 - 32 hrs) and specimens subjected to heat treatment to improve their magnetic properties (oil and water quenching at 1,150°C, tempering at 650°C for 3 and 6 hours); and rolled specimens. Best deformability was revealed in specimens annealed for 16 hours. Br of 4100 gauss and Ho of 560 cersted were obtained after cil quenching and temper-

Card 1/2

S/137/60/000/006/004/015 A006/A001

The Effect of Iron on Magnetic Properties of a Copper-Cobalt Alloy

ing for 6 hours. Magnetic characteristics of an alloy containing up to 2% Fe are by 20-40% below the maximum values attainable for this alloy without Fe. It is recommended to clean the crucible carefully, if a Fe-alloy was previously melted in it, and to use a quartz mixer instead of an iron one.

Ye.V.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

83419

18.1142

S/081/60/000/012(II)/002/010 A006/A001

Translation from: Referativnyy zhurnal, Khimiya, 1960, No. 12 (II), p. 434, # 48001

AUTHOR:

Gavrilov, P.D.

TITLE:

Stability of Magnetic Copper Cobalt Alloy and the "Magniko" Type

Alloy in Some Aggressive Media

PERIODICAL:

Tr. Kazansk, khim.-tekhnol. in-ta, 1957, (1959) No. 22, pp. 223-230

TEXT: Investigations were made into the corrosion resistance under atmospheric conditions, in water steam sea water, and solutions of NaOH, H2SO4, HCl (acid) and HNO3, of magnetic "Magniko" type alloys (Co 25.26%, Ni 14.61%, Cu 2.8%, Al 8.46%, Si 0.02%, Mn 0.35% S and P traces, the rest Fe) and the "Kuniko" type alloys (Cu 52.2%, Ni 20.52%, Co 27.25%, the rest Fe). The following conclusions are drawn: 1. Both the alloys are relatively resistant under atmospheric conditions, (testing of specimens during a year in open atmosphere), in water steam at 100% humidity, and in salt solutions (sea water). Changes in the weight of specimens are insignificant, but the surface loses its luster. 2. In alkaline solutions (tests in a 5% NaOH solution) the "Magniko" alloy is unitable and the

Card 1/2

83419

S/081/60/000/012(II)/002/010 A006/A001

Stability of Magnetic Copper Cobalt Alloy and the "Magniko" Type Alloy in Some Aggressive Media

"Kuniko" alloy absolutely stable. 3. The "Magniko" alloy corrodes intensively in a 5% H<sub>2</sub>SO<sub>4</sub> solutions while the "Kuniko" alloy proves to be rather resistant at 1<sup>44</sup>-hour tests in 5 and 10% H<sub>2</sub>SO<sub>4</sub> and 5% HCl solutions. 4. In a 5% HNO<sub>5</sub> solution both the alloys are unstable. This is manifested in the violent liberation of hydrogen and brewn coloring of the solution. The chemical analysis has shown that all the components contained in the alloy pass simultaneously into the solution.

L. Kamionskiy

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

GAVEILOY, P.D., inch.

Repair of the electric motors of cutter-loaders. Sbor. nauch. trud.
Kem. gor. inst. no.5:3-10 '64. (MIRA 18:3)

1. Gorno-elektromekhanicheskiy fakul'tet Kemerovskogo gornogo instituta.

VINOGRADOV, Boris Vladimirovich; LISITSYN, S.V., inch., red.; KUZNETSOV, W.S., inch., red.; GAVRILOV, P.G., kand.tekhn.nauk, red.; SONOVA, T.M., inch., red.isd-va; DUGINA, N.A., tekhn.red.

[Dimensions and layout of parts in the manufacture of machinery]
Resmery i resmetka detalei v mashinostorenii. Moskva, Gos.nauchnotekhn.isd-vo mashinostroit.lit-ry, 1960. 84 p. (Biblioteka rasmetchika, no.13).

(MIRA 13:11)

(Leying out (Machine-shop practice))

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000514510004-1"

ANIKIN, Nikolay Aleksandrovich; DROBYSHEVSKAYA, Nadezhda Ivanovna;
DUDINOV, Vladimir Alekseyevich; KON'KOV, Arkadiy
Sergeyevich; KONYUKHOV, Sergey Mikhaylovich; MESHCHERINOV,
Fedor Ivanovich; POLETSKIY, Aleksandr Timofeyevich; POLYAKOV,
Gleb Maksimovich; SAL'NIKOV, Oleg Alekseyevich; CHERNOBAY,
Dmitriy Gavrilovich; GAVRILOV, P.G., kand. tekhn.nauk, retsensent; NEFED'YEV, G.N., kand. fiz.-mat. nauk; SOKOLOV, V.M.,
kand. fiz.-mat. nauk; SOKOLOVSKIY, V.I., kand. tekhn. nauk;
RUDIN, S.N., insh.; EYDINOV, M.S., kand. tekhn. nauk; DUBITSKIY,
G.M., doktor tekhn. nauk, red.; ZAKHAROV, B.P., inzh., red.;
KONOVALOV, V.N., kand. tekhn. nauk, red.; PERETS, V.B., kand.
tekhn. nauk, red.; ROZENBERG, I.A., kand. ekonom. nauk, red.;
STEPANOV, V.V., kand. tekhn. nauk, red.; SUSTAVOV, M.I., insh.,
red.; SHABASHOV, S.P., kand. tekhn. nauk, red.; DUGINA, N.A.,
tekhn. red.

[Handbook for inventors and innovators]Spravochnik dlia izobretatelia i ratsionalizatora . [By] N.A.Anikin i dr. Izd.3., ispr. i dop. Moskva, Mashgiz, 1962. 791 p. (MIRA 16:1) (Technological innovations—Mechanical engineering)

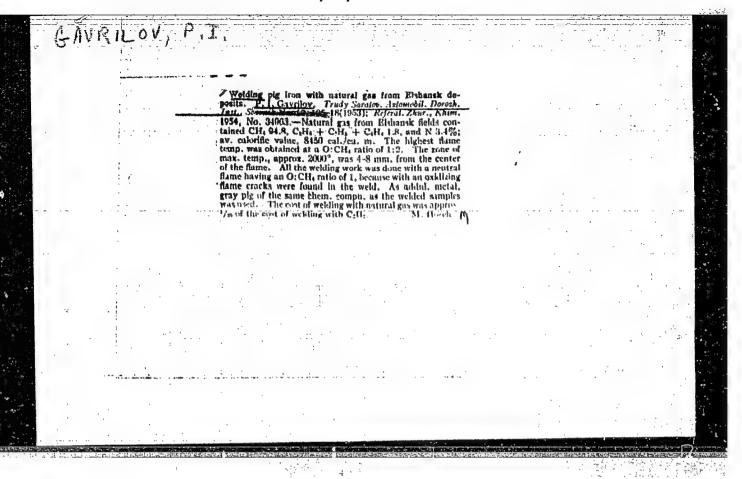
MIROSHNICHENKO, Boris Yakovlevich; BUKHVALOVA, K.I., inzh., red.vypuska; KUZNETSOV, N.S., inzh., red.; GAVRILOV, P.G., kand.tekhn.nauk, red.; SOMOVA, T.M., inzh., red.; MARCHENKOV, I.A., tekhn.red.

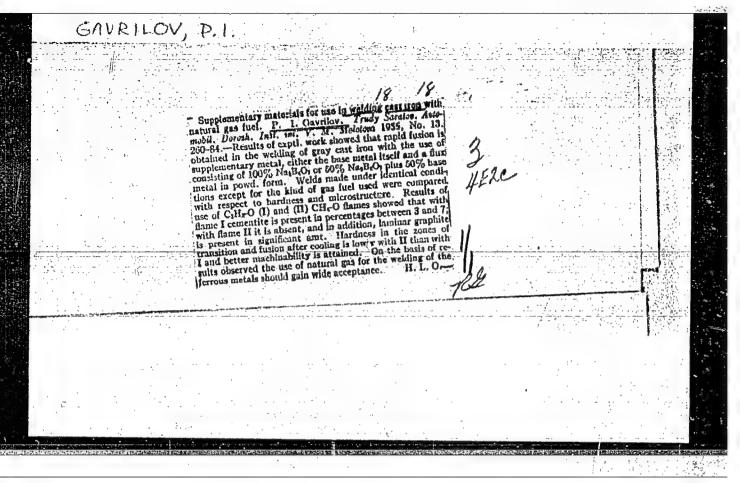
[Layout precision in the manufacture of machinery] Tochnost<sup>†</sup>
mashinostroitel noi rasmetki. Sverdlovak, Gos.nauchno-tekhn.izd-vo
mashinostroit.lit-ry, 1960. 86 p. (Biblioteka razmetchika, no.4).

(MIRA 14:1)

(Laying out--Machine-shop practice)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000514510004-1"





SOV/137-57-11-21808

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 11, p 162 (USSR)

AUTHOR: Gavrilov, P. I.

TITLE: Experimental Shop Welding With Natural Gas (Opyt svarki

yestestvennym gazom na zavode)

PERIODICAL: Sb. nauchn. soobshch. v pomoshchi prom-sti. Saratovsk.

avtomob. -dor. in-t, 1956, Nr 4, pp 9-12

ABSTRACT: Natural gas which is similar to the gas employed in the city of

Saratov, but has a low heat value ( $Q_{\ell} = 8500 \text{ kcal/m}^3$ ), may be employed in welding of gray cast iron. Cast-iron welding rods 5-8 mm in diameter and 300-400 mm long are employed in conjunction with a flux containing 50% of borax and 50% of filings from a metal of the same type as the parent metal (the filings were sifted through a screen with openings not exceeding 0.2 mm). With

the exception of Si, which is present in quantities equivalent to 3-4%, the welding rods have the same chemical composition as the parent metal. When welding is performed with nozzles of old

design, the area of nozzle opening is enlarged. In order to expand the flame and ensure an adequate supply of oxygen and fuel gas,

Experimental Shop Welding With Natural Gas

SOV/137-57-11-21808

additional openings are drilled along the middle line of the outer diameter and along the axis connecting the centers of these openings at an inclination of  $\sim\!5^{\circ}$  with respect to the centerline of the nozzle. Introduction of natural-gas welding in Saratov resulted in a 95-percent reduction in cost as compared with the cost of  $C_2H_2$  welding.

G. K.

Card 2/2

SOV/137-57-6-10291

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 6, p 128 (USSR)

AUTHOR: Gavrilov, P.I.

TITLE: A Mixture Composed of Natural Saratov Cas and Acetylene is

Employed in Welding of Ferrous Metals (Ispol'zovaniye smesi sara-

tovskogo gaza s atsetilenom dlya svarki chernykh metallov)

PERIODICAL: Tr. Saratovsk. avtomob.-dor. in-ta, 1956, Nr 14, pp 330-344

ABSTRACT:

It has been established that a mixture composed of  $C_2H_2$  and Saratov natural gas (CH4) may be employed for welding of cast iron and low-carbon steel 1-5 mm thick. At a ratio  $CH_4:C_2H_2=90:10$ , the productivity of cast-iron welding is comparable to the productivity achieved with  $C_2H_2$  alone. Metallographic investigations carried out on welded cast-iron specimens revealed that the quantity of cementite contained in the metal deposited by welding and in the transition zone is considerably smaller than in the case of welds performed with  $C_2H_2$  alone. The temperature of the welding flame was measured at various values of the  $CH_4/C_2H_2$  ratio. Thermal-balance calculations of the process corroborate the expediency of the employment of the  $CH_4-C_2H_2$  mixture.

Card 1/1

#### CIA-RDP86-00513R000514510004-1 "APPROVED FOR RELEASE: 07/19/2001

SOV/137-59-1-805

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 1, p 108 (USSR)

Gavrilov, P. I. AUTHOR:

An Investigation Into the Employment of Natural Gas for Shop Welding TITLE:

of Cast-iron Components (Issledovaniye svarki prirodnym gazom

chugunnykh detaley v zavodskikh usloviyakh)

PERIODICAL: Tr. Saratovsk. avtomob.-dor. in-ta, 1957, Vol 15, Nr 2, pp 104-116

ABSTRACT: A report on a method for welding (W) of grey cast iron adopted at

the Saratov heavy machinery plant; the W is performed with Saratov natural gas which, compared with other gases of domestic deposits, exhibits the lowest degree of contamination and possesses a high heat value (8500 kcal/nm3). Processes of graphitization or decarburization of the metal deposited may take place during W of castiron parts. Compared with heavy welds, welded joints in small components exhibit a greater degree of decarburization. W temperatures produced by the natural gas ensure the formation of a grey cast-iron structure in the welds thus compensating for the contrac-

tion effects due to graphitization. The burners employed in W of Card 1/2

SOV/137-59-1-805

An Investigation Into the Employment of Natural-gas for Shop Welding (cont.)

cast iron were modernized: Additional openings were drilled in the nozzles; the nitrogen injectors were made larger than the acetylene injectors. A flux is employed during the W operations. The welds obtained are of high quality and are readily machined.

K. V.

### PHASE I BOOK EXPLOITATION

SOV/3516

Gavrilov, Petr Ivanovich, Candidate of Technical Sciences

Svarka chuguna i rezka metallov yestestvennym gazom (Welding of Cast Iron and Cutting of Metals with Natural Gas) [Saratov] Saratovskoye knizhnoye izd-vo, 1958. 46 p. 2,000 copies printed.

Sponsoring Agency: Nauchno-tekhnicheskoye obshchestvo mashinostroitel noy promyshlennosti. Saratovskoye pravleniye.

Ed.: K. Sinitaina; Tech. Ed.: V. Lukashevich.

PURPOSE: This pemphlet is intended for metallurgical engineers, technicians, and welders.

COVERAGE: Various aspects of the welding process carried out with the use of natural gas are reviewed and the necessity of utilizing natural gas for cutting and welding metals is pointed out. In this connection the composition of natural gas recovered in the Saratov region is analyzed along with reactions taking place when the gas is decomposed into carbon and hydrogen at a temperature of 1,000°C - 1,250°C. The oxidation of gas mixture is described

Card 1/3

Welding of Cast Iron (Cont.)

**80V/3516** 

and the proper handling of the welding torch explained. Main features of the welding process and welding equipment are reviewed along with the description of the base material, welding rod, flux material and techniques of the welding procedure. The author also analyzes impurities which natural gas may contain and makes suggestions as to how welders using natural gas from the Saratov region for welding purposes should be protected and safety measures maintained. The author points out that test results reveal—that Saratov natural gas can be successfully used for seam welding of gray iron. Defects of various equipment eliminated by gas welding are illustrated. The process of metal cutting with the use of the above gas is also described and the desirability of substituting artificial acetylene by natural gas methane is pointed out with the emphasis on savings which may result from this substitution. There are 7 references, all Soviet.

### TABLE OF CONTENTS:

Natural Gas of the Saratov Region

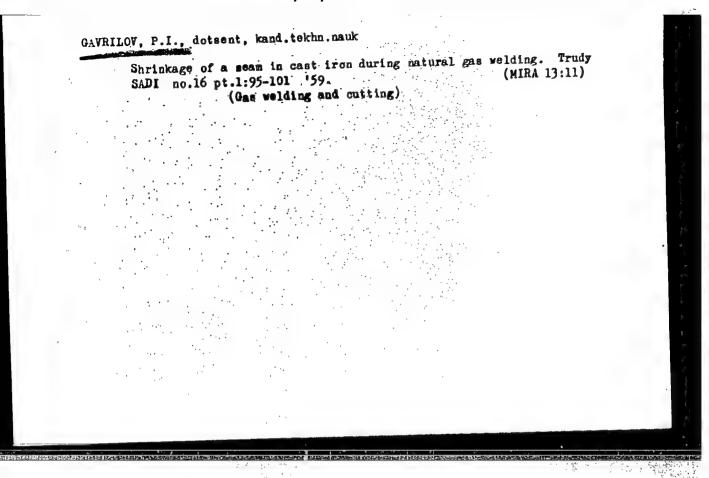
3

Welding Cast Iron by Using Natural Gas (Nethane)
Main fasture of the welding process
Welding torch for natural gas

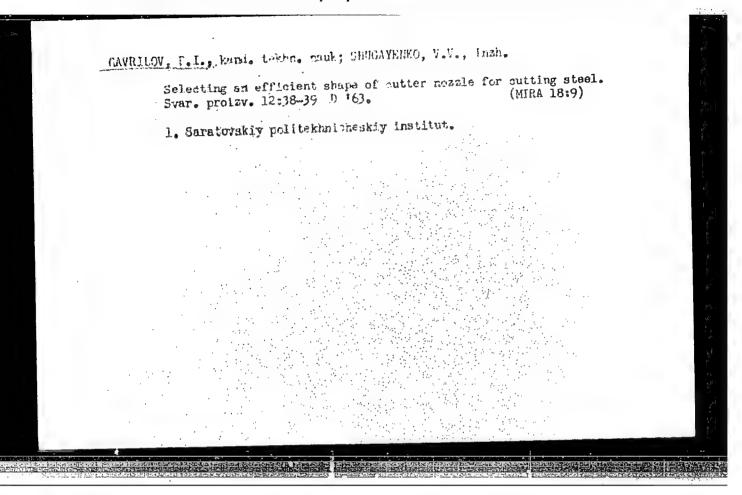
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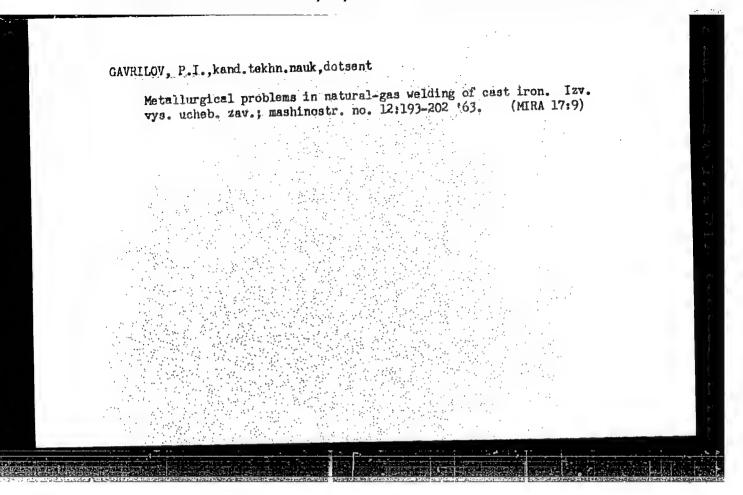
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# Welding of gray cast iron by metal gas. Svar. proizv. no.12:31(MINA 14:12) 1. Saratovskiy politekhnicheskiy institut. (Cast iron—Welding) (Gas welding and cutting—Equipment and supplies)

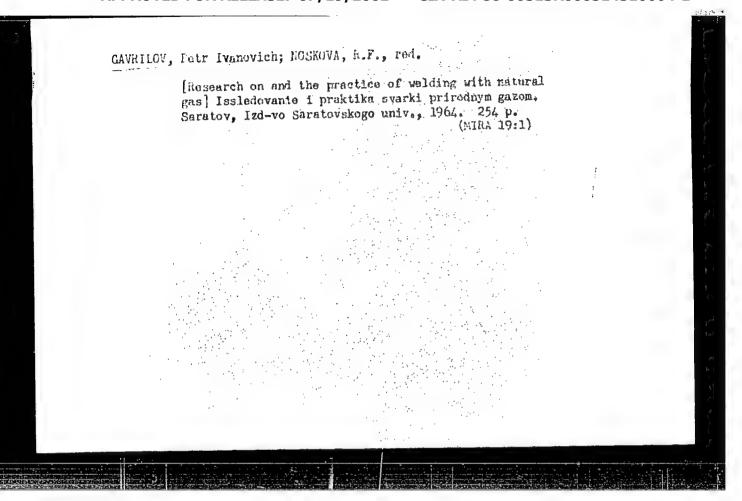




GAVRILOV, P.I., kand. tekhn.nauk; SHUGAYENKO, V.V., inzh.

Effect of cutting on the structure and properties of steel
when using natural gas in the heating flame. Svar. proizv.
no.10:28-29 0 '65. (MIRA 18:10)

1. Saratovskiy politekhnicheskiy institut.



GAVRILOV, P.I., kand. tekhn. nauk, dotsent Effect of separate components of filler metal on the quality of a seam in natural-gas welding of cast iron. Izv. vys. ucheb.

(MIRA 19:1)

1. Submitted May 29, 1964.

zav.; mashinostr. no. 10:204-210 '65

CIA-RDP86-00513R000514510004-1" **APPROVED FOR RELEASE: 07/19/2001** 

GAVE - 27 KA LEYBOSHITS, L.M.; GAVRILGI, P.E., redsktor; SHEKETER, D.I., redsktor; POD"YAL'SKAYA, A.H., technicheskiy redektor [Leningrod - Lake Onega; guide for tourists; Leningrad - Onezhakoe ozero; sprayochnik up turistakomu marahtutu. Petrozavodak, Gos. (MLRA 10:10) izd-vo Karel'skoi ASSR, 1957, 100 o. 1. Vsesoyuznyy teentral'nyy sovet profeshional'nykh soyuzov . (Leningrad -- Description)

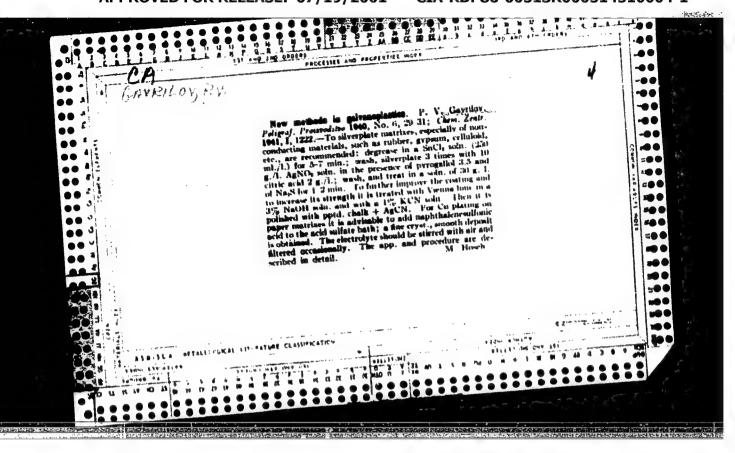
> CIA-RDP86-00513R000514510004-1" APPROVED FOR RELEASE: 07/19/2001

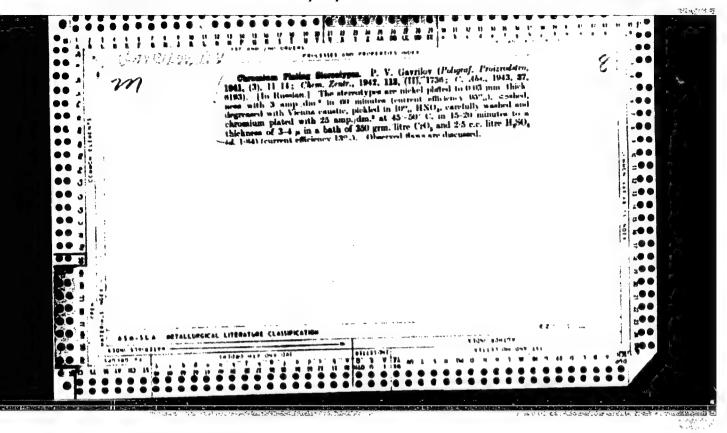
GAVRILOV, Petr Mikhaylovich; LEYBOSHITS, Leonid Mikhaylovich; SIDORENKO, A.Ye., red.; KOROBOVA, N.D., tekhn.red.

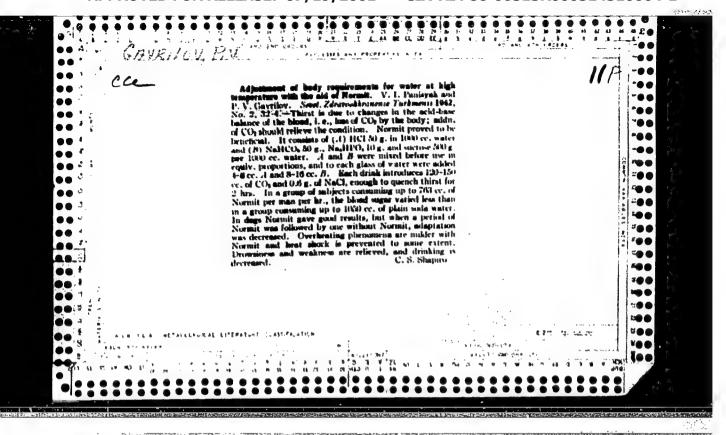
[With a tourist's pass; routes of tours planned by the Leningrad Province Tourist and Excursion Agency] Po turistskoi putevke; turistskie marshruty Leningradskogo oblastnogo turistskoekskursionnogo upravleniia. Moskva, Profizdat, 1962. 94 p. (MIRA 15:6)

(Russia, Northwester-Guidebooks)

大大大 经营工的







TSADIKOVICH, Fedor Moiseyevich; GAVEILOV, R.A., prof., red.; KUEMEVA.

(N.M., tekhn.red.

[New types of gas-discharge davices for ionic electric drives; transcript of lectures] Movye tipy gasorarriadnykh priborov dlia iunnoge elektroprivode; stenogramma lektaii. Leningrad, 1959. 12 p.

(Electric driving)

BLISKUNOV, N.A.; KAMERIETSKIY, I.Ya.; GAVRILOV, R.A., retsensent; OBOLENSKIY, S.A., red.; ZHITNIKOVA, O.S., tekhn.red.

[Production technology of electronic vacuum devices] Tekhnologiia proisvodstva elektrovakuumnykh priborov. Leningrad.

Mnerg.isd-vo. Pt.1. [Production of cathodes, heaters, and getters] Isgotovlenie katodov, podogrevatelei i gasopoglotitelei. 1959. 219 p. (MIRA 13:3)

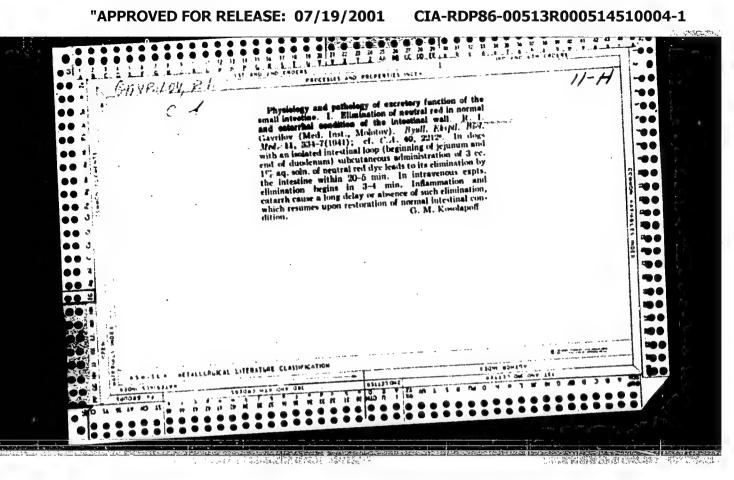
(Electron tubes)

MANAYEVA, Ol'ga Vasil'yevna; YAKUTA, Kira Ivanovna; GAVRILOV, R.A., red.; SOBOLEVA, Ye.M., tekhn. red.

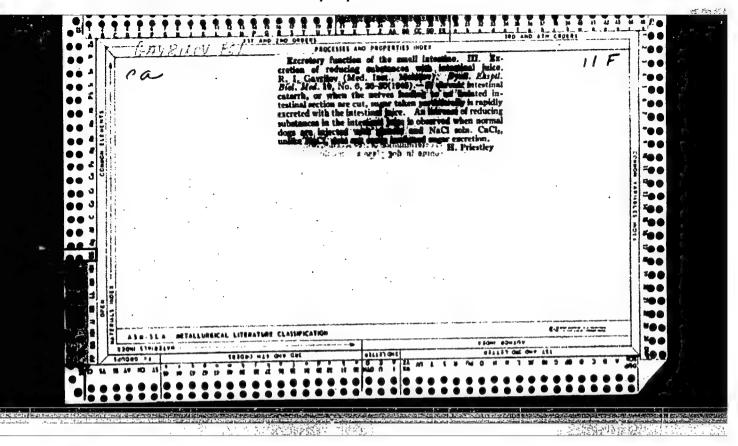
[Economic calculations in the manufacture of electric and vacuum devices] Ekonomicheskie raschety v elektrovakuumnom proizvodstve. Moskva, Gosenergoizdat, 1963. 186 p. (MIRA 16:8)

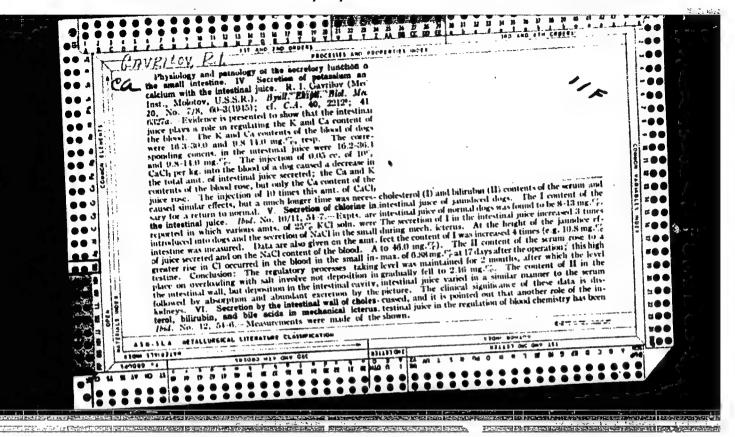
(Electric equipment industry) (Electron tubes)

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SKUKINA, E.M.; LIMBERO, A.A., professor, chlen-korrespondent Akademii meditsinskikh nauk SSSR, laureat Stalinskoy premii, zavednyushchiy; GAYRILOV, E.I., professor, direktor.

Application of plastic material AKB-7 in replacement of facial bone defects.

Stomatologia no.3:49-46 \*53.

1. Eafedra khirurgicheskoy stomatologii Leningradskogo meditsinskogo stomatologicheskogo instituta (for Skukina and Limberg). 2. Leningradskiy meditsinskiy stomatologicheskiy institut (for Gavrilov). 3. Akademiya meditsinskikh nauk SSSP (for Limberg).

(Face-Wounds and injuries) (Surgery, Plastic)

GAYRILOV, R.I.

YADROVA, K.S.; LIMBERG, A.A., professor, zaveduyushchiy; GAVRILOV, R.I., professor, direktor.

Wooden apparatus for mechanotherapy of the lower jaw. Stomatologiia no.4: 53-54 J1-Ag \*53. (MLRA 6:9)

1. Kafedra khirurgicheskoy stomatologii Leningradskogo meditsinskogo stomatologicheskogo instituta (for Limberg and Yadrova). 2. Leningradskiy meditsinskiy stomatologicheskiy institut (for Gavrilov).

(Dental instruments and apparatus)

BASKAKOV, V.S.; VIKHLYAYEV, V.M.; CAVRILOV, R.I.; GREBNEV, P.A.; ZHEMCHUZHNI-KOVA, Ye.Ye.; IDEL'SON, I.D.; MEN'SHIKOV. N.S.; MOROZOVA, Yu.G.; POPOV, V.A.; FEDOROV, S.F.; PAVLOV, Ya.M., dotsent, kandidat tekhni-cheskikh nauk, redaktor; ZHIGLINSKIY, A.A., inzhener, redaktor; RUNICH, K.N., inzhener, redaktor; SOKOLOVA, L.V., tekhnicheskiy redaktor

[A collection of drawings for parts used in machine building] Sbornik mashinostroitel nykh cherteshei dlia detalirovok. Izd. 2-oe, dop. i perer. Moskva, Gos. nauchno-tekhn. isd-vo mashinostroit. lit-ry, 1956. 1 v., 50 1. (MIRA 10:2)

(Machinery--Design)

GAVRILLV, K. I

AID P - 4306

PRESENT OF

Subject

: USSR/Engineering

Card 1/1

Pub. 128 - 6/26

Authors

: Anosov, A. S., Kand. Tech. Sci., Dotsent, and R. I.
Gavrilov, Engineer (Leningrad Polytechnical Institute im.
M. I. Kalinin)

Title

: Comparative tests on friction of laminated wood-plastic

materials of two kinds.

Periodical

: Vest. mash., #3, p. 25-29, Mr 1956

Abstract

The Central Scientific - Research Institute for Veneers and Furniture (TsNIIFM) has produced a new laminated wood-plastic material DSP-B consisting of a veneer or plywood saturated in "Industrial \$5" mineral oil. This new plastic material has been subjected to comparative tests on friction with the previously-used DSP plastic material. The results of those tests are reported.

Charts, photo, 3 references, 1948-1954.

Institution:

None

Submitted

: No date

### CIA-RDP86-00513R000514510004-1 "APPROVED FOR RELEASE: 07/19/2001

USSR/Human and Animal Physiology. Digestion. Salivary Glands. T-7

Abs Jour: Ref Zhur-Biol., No 12, 1958, 55696.

Author : Gavrilev, R.I., Shastin, R.N. Inst

: Kalin'n Institute of Medicine.
: The Fynanics of Ca<sup>45</sup> Discharge by Parotid and Submixillary Title

Salivary Glands when Using Alimentary and Rejectable

Irritants.

Orig Pub: Tr. Kalininsk. med. in-ta, 1957, vyp. 1, 122-126.

Abstract: After an intravenous injection of 100 Murie of Ca 15, the discharge of Ca 15 with the saliva was examined in dogs whose parotid (PG) and submaxillary gland (SG) ducts were exposed. The saliva discharge was provoked by powdered neat bisquits being eaten, or by an oral induction of lemon citrate. The specific salivary activity of PG was higher than specific

: 1/2 Card

CAVKILOY,

USSR/Human and Animal Physiology. Digestion. Salivary Glands. T-7

Abs Jour: Ref Zhur-Biol., No 12, 1958, 55696.

blood activity. It was also 2-10 times higher than the specific salivary activity of SG. The maximum  $30^{45}$  discharge occurred during the first 5-15 minutes following the isotope administration.

Card : 2/2

92

"Problem in the physiology and pathology of digestion"; "Trudy" of the Institute of Normal and Pathological Physiology, Vol.2, 1958.
Reviewed by R.I.Gavrilov. Pat.fiziol.i eksp.terap. 4 no.2192-93
Mr-Ap '60. (DIGESTION)

GAVRILOV, R. I., prof.; SHASTIN, R. N., dotsent; KRANTIKOVA, T. V., starshiy laborant

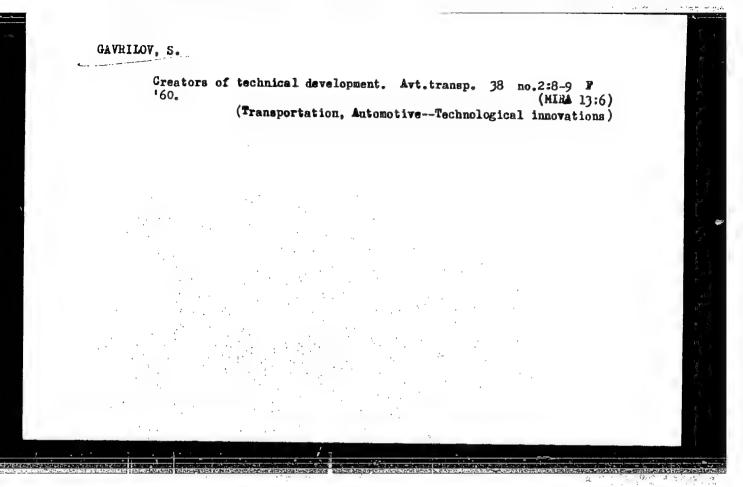
Effect of a change in the functional state of the nervous system on the excretory activity of the salivary glands. Trudy KGMI no.2:37-44 '60. (MIRA 15:7)

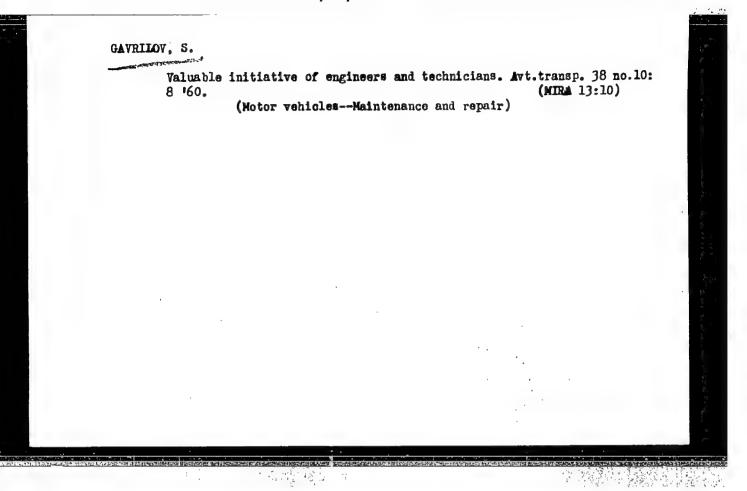
1. Iz kafedry patologicheskoy fiziologii - zav. kafedroy professor R. I. Gavrilov.

(SALIVARY GLANDS) (NERVOUS SYSTEM)

"Mede" paste. Prom.koop. 12 no.11:21 N '58. (MIRA 11:11)

(Scouring compounds)





8 no.10:15 0 '62.	tural carnallite. Stroitel' (MIRA;15:11) arnallite)	
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### "APPROVED FOR RELEASE: 07/19/2001

### CIA-RDP86-00513R000514510004-1

EWT(1)/EFC(k)=2/FSS=2L 44707-66 EWT (1 ACC NR: AN6030737 UR/9008/66/000/065/0005/0005 SOURCE CODE: AUTHOR: Gavrilov, S. (Engineer; Lieutenant colonel) ORG: none TITIE: Tasks involved in the Kosmos-110 experiment SOURCE: Krasnava zvozda, 19 Har 66, p. 5, col. 14 TOPIC TAGS: calcium, space physiology, biologic metabolism, biotelemetry, cardiovascular system, dog, weightlessness, space flight, aerospace personnel, biologic acceleration effect, blood pressure/Kosmos-110 space flight ABSTRACT: Medical monitoring of the Kosmos-11C flight was conducted around the clock by a special group of medical specialists. Even the slightest change in the behavior or the condition of the animals was thoroughly analyzed and decisions were made on the basis of this analysis. Decisions of the medical monitoring group had the force of law for all other groups at the biosatellite control center. When the medical monitoring group changed shifts, the new group received detailed briefings on respiration frequency, pulse rhythm, body temperature, blood pressure, what time the dogs had been fed, and the condition of the on-board life support systems. 1/4 Card

ACC NR: A55030737

The moving force in setting up and conducting this experiment was Boris Borisovich Yegorov. He has been planning and doing the preparatory work for this experiment ever since completing his own flight in space on the Voskhod-1. His colleagues who are assisting in the conduct of the Kosmos-110 experiment are mostly young and enthusiastic researchers like Aleksandr Alekseyevich Kisilev. Kisilev (who is chief of a laboratory in a research institute) was responsible for monitoring the condition of and any changes in the cardiovascular system of the experimental dog, Veterok.

By 15 March it became evident that the flight portion of the scientific program of the Kosmos-110 experiment had been accomplished. Although all of the equipment was functioning perfectly, and there still remained supplies of food, water, and power adequate to continue the flight, it was decided to bring down the biosatellite in its 22nd day, on 16 March 1966.

While the flight lasted the main concern of the medical group was whether the dogs could adjust to weightlessness and if so how would their organisms react to acceleration forces which arise during re-entry. It turned out, as is now known, that the dogs did adjust to weightlessness. Now that the flight is over, what interests the medical observers is the process of readjustment to terrestrial conditions.

Card 2/4

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ACC NR: AN6030737

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The behavior of the cardiovascular regulatory system of the experimental dog was selected as the criterion for judging the process of gradual adaptation of the organism to spaceflight conditions. The experimental dog was given a stimulant, which under normal terrestrial conditions evokes a completely standard reaction on the part of the cardiovascular system, a reaction which manifests itself in changes of blood pressure and heart rate. By comparing the dog's reactions to this stimulant under spaceflight conditions with those obtained on Earth, it is possible to determine the degree of adaptation which has taken place in the organism.

Very close observation of the experimental dog will be continued to monitor the process of readaptation to terrestrial conditions. How long this process will take is difficult to predict. However, the good condition of the two dogs, which withstood re-entry accelerations satisfactorily, augurs well.

A. A. Kisilev pointed out that the experimental team was also interested in the process of calcium loss which takes place under conditions of weightlessness. It is expected that the data obtained in the Kosmos-110 experiment will provide a pretty accurate answer to this problem. Another

Card 3/4

ACC 11% ANSO30737	
objective was to monitor water and salt metabolism, which is very close related to the proper selection and scheduling of the diet. It is hoped to data from the present experiment will provide a scientific basis for solution the problem of feeding on prolonged manned spaceflights. [AID PRESS:	lving
SUB CODE: 06, 22 / SUBM DATE: none	
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Card 4/4	

"A Heavy-Mater desearch-deactor," a paper presented at the Atoms for Peace Conference, Egneva, Switzerland, 1955

ALIKHANOV, A.I.; VIADIMIRSKIY, V.V.; MIKITIN, S.Ya.; GALANIN, A.D.; GAVRILOV, S.A.; BURGOV, N.A.

[Heavy water experimental reactor for physical research] Opytayi fizicheskii reaktor s tiazheloi vodoi. Moskva, 1955. 15 p.
(MIRA 14:7)

(Deuterium exide)

(Nuclear reactors)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000514510004-1"

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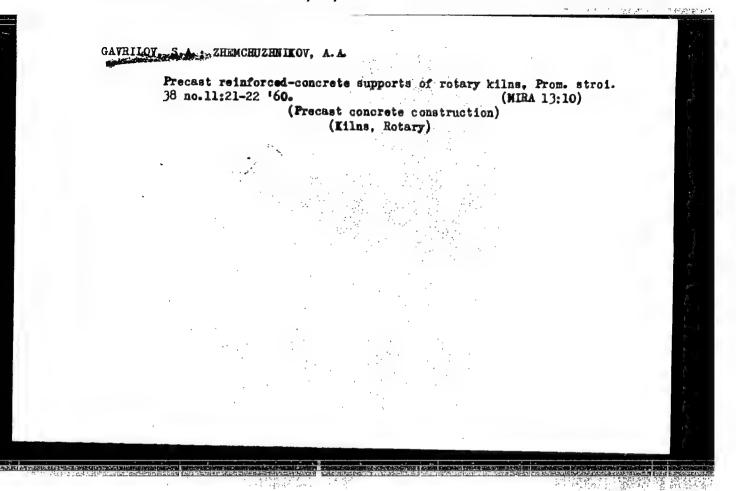
#### GAVRILOV, S.A.

Gertain indexes of reactivity in children treated with prolonged sleep for rheumatism. Vopr. pediat. 20 no.4:9-13 July-Aug. 1952. (CLML 23:2)

1. Of the Department of the Propedeutics of Children's Diseases (Head --- A. B. Volovik), Leningrad Pediatric Medical Institute.

"Reactivity Changes in Rheumatic Children." Dr Med Soi, Leningrad Pediatrics
Medical Inst, Leningrad, 1954. (KL, No 3, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher
Educational Institutions (12)
SO: Sum. No. 556, 24 Jun 55



GAVRILOV, S.A.; THEMCHUZHNIKOV, A.A.

Precast reinforced concrete foundations for rotery cement kilns.

Sbor.trud. Novorossgiprotsementa no.1:55-61 '61. (MIRA 16:2)

(Kilns, Rotary—Foundations)

(Precast concrete construction)

GAVR LOV, S.A., mladshiy naychnyy sotrudnik

Indications for extensive thoracoplasty in tuberculous pleural empyema. Probl. tub. 40 no.6:43-48 \*62. (MIRA 16:12)

1. Iz sanatorno-khirurgicheskogo etdeleniya (zav. - kand. med. nauk L.I.Matuzkova) Sverdlovskogo instituta tuberkuleza Ministerstva zdraveckhraneniya RSFSR (dir. - prof. I.A. Shaklein, nauchnyy rukoveditel N.G.Butkin).

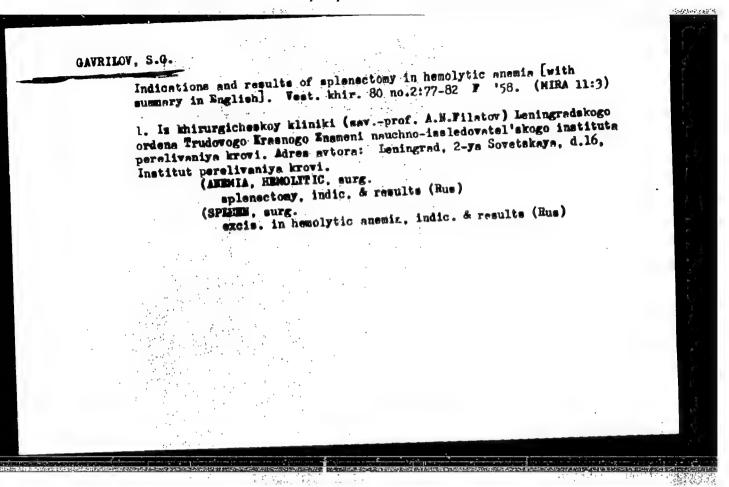
GAVICLOV. E.A., inch.; OVCHARENKO, A.Ya., inch.

Tempert 31 no.525-6 S-0 165. (MTRA 18:10)

1. Nauchno-issledovatel'skiy i proyektnyy institut po gazoochistynym sosruzheniyam, tekhnike bezopasnosti i ekhrana truda v promyshlennosti stroitel'nykh materialov (NIPIGTatrom).

GAVRILOV, S.G., Sand Led Sci-(diss) "Prophyloxic and treatment of complications after splenectomy in patients with see diseases of the blood system." Len, 1978. 17 pp (Lin of Scalth RSFOR. Len Scaltery Syciene Led Inst), 200 copies (KL, 49-58, 126)

Thromboses of the vessels of the portal system following splenectomy.  Akt.vop.perel.krovi no.6:132-138 58. (MIRA 13:1)			
Krovi (28v, kliniko)	klinika Leningradskogo - chlen-korrespondent (PORTAL VEIN)	ingtitute namaliwania	



# GAVRILOV, S.G. Use of intratracheal anesthesia in combination with muscle relaxants in surgery. Trudy LSCMI 59:12-21 160.

1. Klinika obshchey khirurgii Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta (zav. klinikoy - prof. I.M. Tal'man) i Khirurgicheskaya Minika Leningradskogo instituta perelivaniya krovi (zav. klinikoy - chlen-korrespondent AMN SSSR prof. A.N. Filatov).

(MUSCLE RELAXANTS) (INTRATRACHEAL ANESTHESIA)

CIA-RDP86-00513R000514510004-1" APPROVED FOR RELEASE: 07/19/2001

CAVRILOV, S. G.

: UTHOR:

Hone Given

207/6-58-6-18/21

TITLE:

Chronicle (Khronika)

DERIODICAL: Geodeziya i kartografiya, 1958, Nr 6, pp. 77-78 (USSR)

BUTRACT:

From April 25 - 28, 1958 a Conference of the Chief Engineers and Directors of the Technical Control of Aerial Surveying Enterprises took plans at the Moscow Central Bureau of Surveying and Cartography of the Ministry of the Interior of the USSR (Glavnoye upravleniye geodezii i kartografii MVD SSSR). It dealt with the improvement of the production organization and the quality of topographical work in surveying of official importance. The following lectures were held: S. G. Sudakov, Deputy Director of the Glavnoye upravleniye geodezii i kartografii MVD SSSR on: "Main Problems in the Further Improvement of Topographical Work in Surveying of Official Importance". The Chief-Engineers of the enterprises held the following lectures: S. G. Gavrilov - "Technical Projecting of Topo-graphical-Geodesic Field "ork". S. T. Yurov - "Comprehensive Ferformance of the Position- and Elevation Orientation of acrial Photographs", B. D. Zaprudnov - "Taking a Combined Photograph of Flat Country Covered With Forests", L. A.

Card 1/3

Chronicle

507/6-58-6-18/21

Kashin - "Organization of the Financial Administration in Field Subdivisions of the Aerial Surveying Enterprise North-Caucasus"; M. V. Avilov, Director of the Stereo Works at the MAGP - "Control Operations on Stereotopographical Photographs at the MAGP". - The scientific members of the staff of the TaniiGAik: held the following lectures: B. A. Larin - "The Possibilities of Using the Light-Range-Finder in Compiling Geodesic Constructions". V. Ya. Mikhaylov - "On the Improvement of the Photographic Quality of "hotographs". P. I. Durneva -"New Geodesic Instruments for the Preparation of the Basis for Topographic Photographs". M. S. Uspenskiy - "Some Results of the Stability Investigation of Traverse Stations and Monuments in the Area of the MUSSR". M. D. Konshin - "On Using the Elements of External Orientation in the Photogrammetric Evaluation of Aerial Photographs, and on the Increase of the Accuracy in Stereoscopic Measurements". G. D. Krasheninnikov - "On the Stereo-graph by Drobyshev". - The members of the staff of the departments of the CUCkaheld the following lectures: G. S. D'yakov - "On the Stage of Technical Studies at Aerial Surveying Enterprises". V. N. Shishkin - " The Work of Rationalizing and Introducing the New Technique to the Topo-

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SOV/6-58-6-18/21

graphic-Geodesic Production of the GUGK in 1957". A. P. Shcheglov - "Analysis of the Measuring Accuracy in the Triangulation of 2nd and 3rd order in the Years 1956-1957".

B. V. Troitskiy - "Marking Control Points for the Geodesic Preparation of Photographs". I. V. Krylov - "Analytical Method for the Determination of Position- and Altitude Traverse Stations".

Based on the lectures it could be found that during the last years the topographic photographs of the scale 1:25 000 and 1:10 000 have undergone great development.

The conference decided to invite the representatives of the aerial surveying enterprises of the departments of the State Geodesic Control as well as of the interested offices to a conference at the end of 1958 and to investigate the project for the plan of development of the geodesic tasks in 1959-1965.

1. Cartography 2. Aerial photography 3. Scientific reports

Card 3/3"

#### "APPROVED FOR RELEASE: 07/19/2001 CIA

#### CIA-RDP86-00513R000514510004-1

AUTHOR:

Gavrilov, S. G.

sc7/6-58-7-5/19

TITLE:

Flanning the Jorking Technique of Topographical and Geodetical Field Work (Rabocheye tekhnicheskoye proyektirovaniye polevykh topografo-geodezicheskikh rabot)

PERIODICAL:

Geodeziya i kartografiya, 1958, Nr 7, pp. 28-34 (USSR)

ABSTRACT:

In the "herial Surveying Authority North Test" the planning of the work in the field sections is carried out with the participation of the working collaborators and of the directors of topographic and geodetical work. Planning is done in two stages: 1) The general technical projects are compiled in the planning bureau and 2) the detailed working plans are compiled in the field sections with the immediate participation of the working collaborators and of the directors of topographic and geodetic field work. Two main problems are presented: 1) On the basis of the general basis of the technical project the actual technique used in field work is to be laid down for each section and for each type of work. 2) The most useful and most economic organization and the sequence of the work to be done by the sub-sections is

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Planning the Working Technique of Topographical and Geodetical Field Work

to be given. This is a general description of methods employed in the planning of the work required for a determination of elevation and position in stereotopographical surveying.

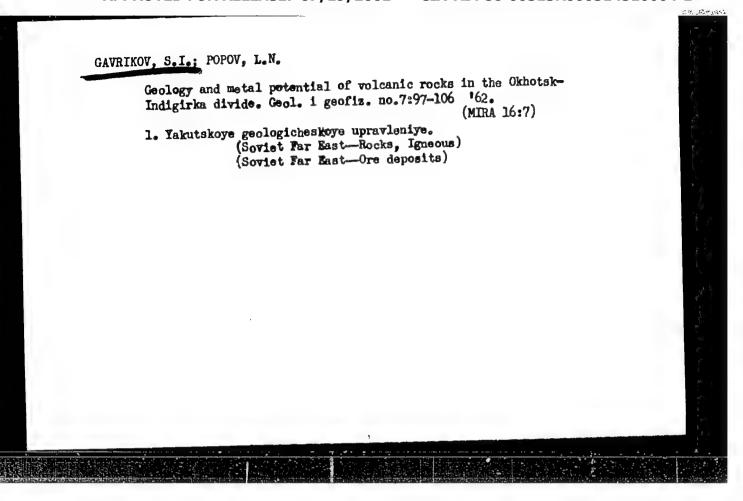
1. Geodesics—Organization 2. Aerial photography—Applications 3. Mapping

PERVOZVANSKIY, V.V.; GAVRILOV, S.G...

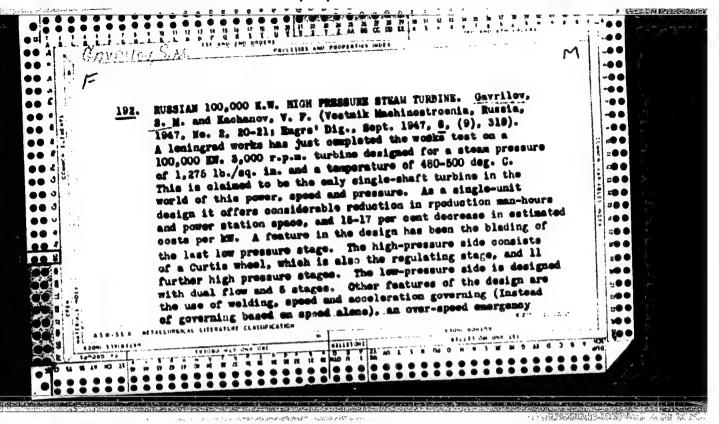
Results of work in the engraving of topographical maps.
Geod. i kart. no.9:50-54 S '61.

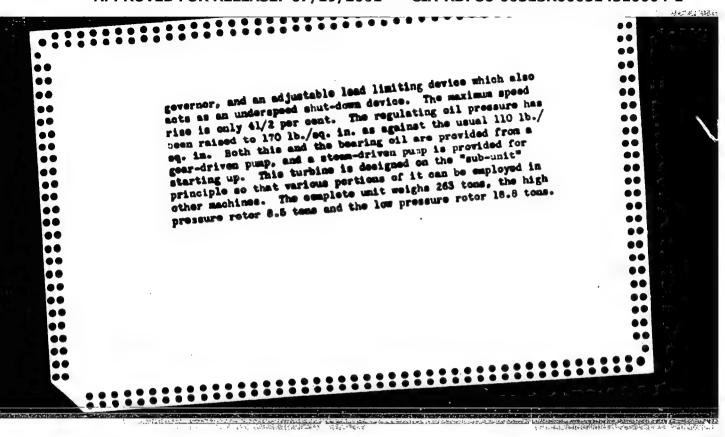
(Map printing)

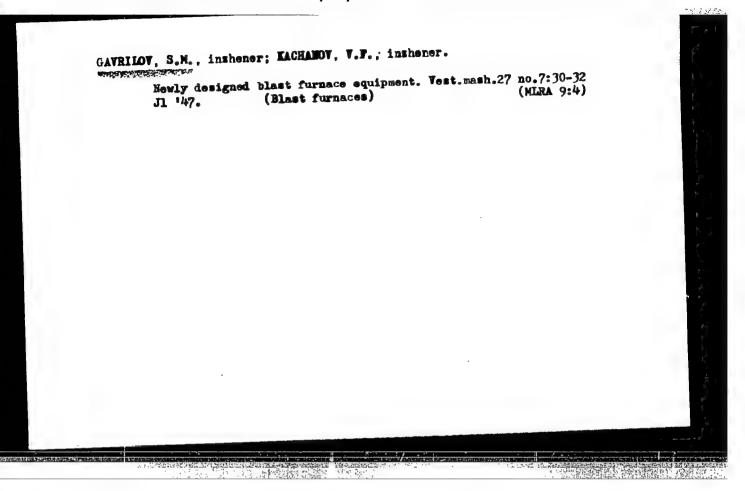
Map printing)



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#### CIA-RDP86-00513R000514510004-1

GAVRILOV, S. M. and V. F. KACHANOV.

Ekskavator E-3 Uralmashzavoda. (Vestn. Mash., 1948, no. 1, -. 24-25)

The E-3 excavator of the Ural machine-building plant.

DLC: Tnh.VL

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

GAVRILOV, S. M. and V. F. KACHANOV.

Shakhtnaia pod"emnaia mashina s bitsilindricheskim barabanom. (Vestn. Mash., 1948, no. 1, p. 26-27)

Refers to "Novo-Kramstorskii" Stalin machine-building plant.

Mine hoisting machine with a two-cylinder drum.

DLC: TNL. VI.

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

GAVRILOV, S. M. and V. F. KACHANOV.

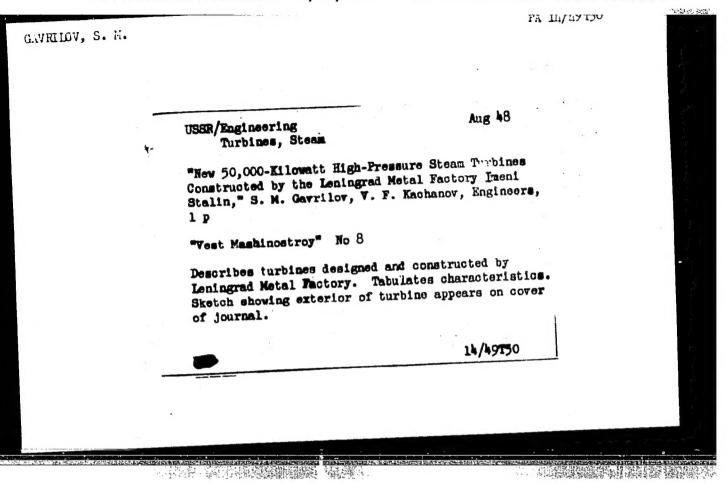
Novyi rudno-ugol'nyi peregruzhatel. (Vestn. Mash., 19h8, no.3, p. 22-23)

Refers to "Staro-Kramatorskii" plant.

The new coal-mining transshipment crane.

DLC:TNh.Vh

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.



KOLOKOLOV, N.V.; KARPYSHEV, M.S.; PARTIKEVICH, F.V.; STOLFNER, I.S.;
SHOWKUR, V.Te.; GAVRILOV, S.M., inzhener, reteenzent; PASTERSHOWKUR, V.Te.; GAVRILOV, Je., inzhener, reteenzent; PASTERSHOWKUR, V.T., inzhener, retektor; PASTE

CAVRILLY S. M.

AUTHOR: Gavrilov, S.M., Engineer.

122-2-20/23

TITLE:

A conference of designers at the Ministry for Heavy Engineering (Soveshchaniye Konstruktorov v Ministerstve Tyazhelogo Mashinostroyeniya)

PERIODICAL: "Vestnik Mashinostroyeniya" (Engineering Journal), 1957, No.2, pp. 85 - 88 (U.S.S.R.)

The conference was opened by the Minister for Heavy ABSTRACT: Engineering, K.A. Petukhov, who noted the improvements achieved recently in their design activity. The volume of project and design work in 1956 was 3.5 - 4 times greater than in 1955. This was achieved by increasing the numbers of design staffs and improving the information services on Soviet and foreign progress. They are now in a position to create new machines, taking foreign experience into account. Further advances in quality are needed to overcome existing shortcomings. Particular attention is to be devoted to fundamentally novel production processes destined to improve the productivity of labour. Examples are "periodic" profile rolling and electric tube welding mills, created by the TsKBMM, headed by the Corresponding Member of the Academy of Sciences of the U.S.S.R., K.I. Tselikov. Often, high output machinery is not accompanied Card 1/14 by adequate service conditions, e.g. the drilling equipment